

**Material Safety Data Sheet**

April 7, 2009

**Product Name : WONDERLOY® PC-510**

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Company CHI MEI Corporation  
Address 59-1, San Chia, Jen Te Village, Tainan County, Taiwan, ROC.  
Information Phone No. 886-6-2663000 Ext.6122 (Safety & Health Development)  
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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Polycarbonate	ABS	Triphenyl phosphate
Content	> 50 %	< 30 %	< 20 %
Formula	$-(O-C_6H_4-C(CH_3)_2-C_6H_4-O-CO)_n$	$(C_3H_3N-C_4H_6-C_8H_8)_n$	$(C_6H_5O)_3P=O$
CAS No.	25929-04-8	9003-56-9	115-86-6

**3. HAZARDS IDENTIFICATION**

Most Important Hazards None  
Adverse Human Health Effects None  
Environmental Effects None  
Physical and Chemical Hazards None

**4. FIRST AID MEASURES**

Inhalation In case of gases evolving from molten resin, move subject to fresh air. Treat symptomatically.  
Skin Contact In case of pellets or powder, wash with water.  
In case of melt, wash affected skin area and clothing with plenty of (soap and) water, seek medical advice.  
Eye Contact In case of pellets or powder, flush with plenty of water for at least 20 minutes. Seek medical advice if any dust particles still remain.  
In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 20 minutes. Seek medical advice if necessary.  
Ingestion Induce vomiting. Rinse mouth with water. Seek medical advice if necessary.

**5. FIRE-FIGHTING MEASURES**

Extinguishing Media Water, Foam, Dry chemical powder  
Special Fire-Fighting Procedure Self contained breathing apparatus  
Fire and Explosion Hazards None

**6. ACCIDENTAL RELEASE MEASURES**

Methods for Cleaning up Recovery if not contaminated or disposal  
Personal Precautions Pellets or powder remained on ground may cause slipping  
Environmental Precautions Gather pellets and powder thoroughly to avoid birds or fishes taking from draining water.

**7. HANDLING AND STORAGE**

Handling Prevent from fire around handling area. Maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of powder, electrostatics eliminators and grounding should be fixed to such equipments as air transferring pipes, bag filters and hoppers. Use electrically conductive filters for bag filters.

Storage Keep the material at a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Fire is inhibited around storage area.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Threshold Limit Value		Not determined
Ventilation		Necessary to exclude dust, fumes and gases.
Personal Protection	Eye	Wear safety glasses for general purpose. Wear chemical goggles for cleaning molding machine.
	Respiratory	Wear masks for cleaning molding machine.
	Gloves	Necessary for handling molten resin.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance		Pellet
Melting Temperature		This product does not exhibit a sharp melting point, but softens gradually over a wide temperature range.
Solubility		Insoluble in water
Specific Gravity		> 1
Flammability		Yes
Flash Point		Not applicable
Autoignition Temperature		> 450 C

**10. STABILITY AND REACTIVITY**

Reactivity with Water		No
Stability		Stable and non-reactive under normal handling and storage conditions.
Thermal Decomposition Gases		Processing fumes evolved at recommended processing conditions may include trace levels of triaryl phosphate ester, styrene, alkyl phenols, acetophenone, cumene, phenol, alpha-phenol, diarylcarbonates, ...etc.

**11. TOXICOLOGICAL INFORMATION**

Irritation		Fumes or vapors generated from decomposing resin may be irritant to eyes.
Acute oral toxicity (LD50)		Not detected
Mutagenicity		Not detected

**12. ECOLOGICAL INFORMATION**

To avoid being taken by ocean species or birds, disposal of the waste to the ocean and water sources is inhibited.

**13. DISPOSAL CONSIDERATIONS**

Controlled incineration or landfill according to local, state or national laws and regulations concerning health and pollution.  
Inadequate incineration may generate toxic gases such as CO<sub>2</sub>, CO, HCN, AN, SM, phosphorus oxides, and hydrocarbon fragments.

**14. TRANSPORT INFORMATION**

Not regulated

**15. REGULATORY INFORMATION**

Not available

**16. OTHER**

The data given above is believed accurate and for reference only.